```
aluno@LAB-DACC-04:~$ ps
    PID TTY          TIME CMD
   2659 pts/0    00:00:00 bash
   4034 pts/0    00:00:00 cat
   4040 pts/0    00:00:00 cat
   4047 pts/0    00:00:00 cat
   4079 pts/0    00:00:00 ps
aluno@LAB-DACC-04:~$ cat &
[4] 4084
aluno@LAB-DACC-04:~$ ps
    PID TTY          TIME CMD
   2659 pts/0    00:00:00 bash
   4034 pts/0    00:00:00 cat
   4040 pts/0    00:00:00 cat
   4047 pts/0    00:00:00 cat
   4084 pts/0    00:00:00 cat
   4091 pts/0    00:00:00 ps

[4]+   Parado                  cat
aluno@LAB-DACC-04:~$ ps -f
UID          PID    PPID  C STIME TTY          TIME CMD
aluno       2659    2583  0 15:10 pts/0    00:00:00 bash
aluno       4034    2659  0 15:30 pts/0    00:00:00 cat
aluno       4040    2659  0 15:30 pts/0    00:00:00 cat
aluno       4047    2659  0 15:31 pts/0    00:00:00 cat
aluno       4084    2659  0 15:31 pts/0    00:00:00 cat
aluno       4131    2659  0 15:32 pts/0    00:00:00 ps -f
aluno@LAB-DACC-04:~$ ps -ef
UID          PID    PPID  C STIME TTY          TIME CMD
root           1       0  0 15:07 ?        00:00:02 /sbin/init splash
root           2       0  0 15:07 ?        00:00:00 [kthreadd]
root           3       2  0 15:07 ?        00:00:00 [rcu_gp]
root           4       2  0 15:07 ?        00:00:00 [rcu_par_gp]
root           5       2  0 15:07 ?        00:00:00 [netns]
root           7       2  0 15:07 ?        00:00:00 [kworker/0:0H-events_highpri]
root           9       2  0 15:07 ?        00:00:00 [mm_percpu_wq]
root          10       2  0 15:07 ?        00:00:00 [rcu_tasks_rude_]
root          11       2  0 15:07 ?        00:00:00 [rcu_tasks_trace]
root          12       2  0 15:07 ?        00:00:00 [ksoftirqd/0]
root          13       2  0 15:07 ?        00:00:01 [rcu_sched]
root          14       2  0 15:07 ?        00:00:00 [migration/0]
root          15       2  0 15:07 ?        00:00:00 [idle_inject/0]
root          16       2  0 15:07 ?        00:00:00 [kworker/0:1-events]
root          17       2  0 15:07 ?        00:00:00 [cpuhp/0]
root          18       2  0 15:07 ?        00:00:00 [cpuhp/1]
root          19       2  0 15:07 ?        00:00:00 [idle_inject/1]
root          20       2  0 15:07 ?        00:00:00 [migration/1]
root          21       2  0 15:07 ?        00:00:00 [ksoftirqd/1]
root          23       2  0 15:07 ?        00:00:00 [kworker/1:0H-events_highpri]
root          24       2  0 15:07 ?        00:00:00 [cpuhp/2]
root          25       2  0 15:07 ?        00:00:00 [idle_inject/2]
root          26       2  0 15:07 ?        00:00:00 [migration/2]
root          27       2  0 15:07 ?        00:00:00 [ksoftirqd/2]
root          29       2  0 15:07 ?        00:00:00 [kworker/2:0H-events_highpri]
root          30       2  0 15:07 ?        00:00:00 [cpuhp/3]
root          31       2  0 15:07 ?        00:00:00 [idle_inject/3]
root          32       2  0 15:07 ?        00:00:00 [migration/3]
root          33       2  0 15:07 ?        00:00:00 [ksoftirqd/3]
root          35       2  0 15:07 ?        00:00:00 [kworker/3:0H-events_highpri]
```

```
root          36          2   0 15:07 ?        00:00:00 [cpuhp/4]
root          37          2   0 15:07 ?        00:00:00 [idle_inject/4]
root          38          2   0 15:07 ?        00:00:00 [migration/4]
root          39          2   0 15:07 ?        00:00:00 [ksoftirqd/4]
root          41          2   0 15:07 ?        00:00:00 [kworker/4:0H-events_highpri]
root          42          2   0 15:07 ?        00:00:00 [cpuhp/5]
root          43          2   0 15:07 ?        00:00:00 [idle_inject/5]
root          44          2   0 15:07 ?        00:00:00 [migration/5]
root          45          2   0 15:07 ?        00:00:00 [ksoftirqd/5]
root          47          2   0 15:07 ?        00:00:00 [kworker/5:0H-events_highpri]
root          48          2   0 15:07 ?        00:00:00 [cpuhp/6]
root          49          2   0 15:07 ?        00:00:00 [idle_inject/6]
root          50          2   0 15:07 ?        00:00:00 [migration/6]
root          51          2   0 15:07 ?        00:00:00 [ksoftirqd/6]
root          53          2   0 15:07 ?        00:00:00 [kworker/6:0H-events_highpri]
root          54          2   0 15:07 ?        00:00:00 [cpuhp/7]
root          55          2   0 15:07 ?        00:00:00 [idle_inject/7]
root          56          2   0 15:07 ?        00:00:00 [migration/7]
root          57          2   0 15:07 ?        00:00:00 [ksoftirqd/7]
root          59          2   0 15:07 ?        00:00:00 [kworker/7:0H-events_highpri]
root          60          2   0 15:07 ?        00:00:00 [cpuhp/8]
root          61          2   0 15:07 ?        00:00:00 [idle_inject/8]
root          62          2   0 15:07 ?        00:00:00 [migration/8]
root          63          2   0 15:07 ?        00:00:00 [ksoftirqd/8]
root          65          2   0 15:07 ?        00:00:00 [kworker/8:0H-events_highpri]
root          66          2   0 15:07 ?        00:00:00 [cpuhp/9]
root          67          2   0 15:07 ?        00:00:00 [idle_inject/9]
root          68          2   0 15:07 ?        00:00:00 [migration/9]
root          69          2   0 15:07 ?        00:00:01 [ksoftirqd/9]
root          71          2   0 15:07 ?        00:00:00 [kworker/9:0H-events_highpri]
root          72          2   0 15:07 ?        00:00:00 [cpuhp/10]
root          73          2   0 15:07 ?        00:00:00 [idle_inject/10]
root          74          2   0 15:07 ?        00:00:00 [migration/10]
root          75          2   0 15:07 ?        00:00:00 [ksoftirqd/10]
root          77          2   0 15:07 ?        00:00:00 [kworker/10:0H-events_highpri]
root          78          2   0 15:07 ?        00:00:00 [cpuhp/11]
root          79          2   0 15:07 ?        00:00:00 [idle_inject/11]
root          80          2   0 15:07 ?        00:00:00 [migration/11]
root          81          2   0 15:07 ?        00:00:00 [ksoftirqd/11]
root          83          2   0 15:07 ?        00:00:00 [kworker/11:0H-events_highpri]
root          84          2   0 15:07 ?        00:00:00 [kdevtmpfs]
root          85          2   0 15:07 ?        00:00:00 [inet_frag_wq]
root          86          2   0 15:07 ?        00:00:00 [kauditd]
root          87          2   0 15:07 ?        00:00:00 [khungtaskd]
root          88          2   0 15:07 ?        00:00:00 [oom_reaper]
root          89          2   0 15:07 ?        00:00:00 [writeback]
root          90          2   0 15:07 ?        00:00:00 [kcompactd0]
root          91          2   0 15:07 ?        00:00:00 [ksmd]
root          92          2   0 15:07 ?        00:00:00 [khugepaged]
root         101          2   0 15:07 ?        00:00:00 [kworker/5:1-events]
root         139          2   0 15:07 ?        00:00:00 [kintegrityd]
root         140          2   0 15:07 ?        00:00:00 [kblockd]
root         141          2   0 15:07 ?        00:00:00 [blkcg_punt_bio]
root         142          2   0 15:07 ?        00:00:00 [tpm_dev_wq]
root         143          2   0 15:07 ?        00:00:00 [ata_sff]
root         144          2   0 15:07 ?        00:00:00 [md]
root         145          2   0 15:07 ?        00:00:00 [edac-poller]
root         146          2   0 15:07 ?        00:00:00 [devfreq_wq]
root         147          2   0 15:07 ?        00:00:00 [watchdogd]
```

```
root      148     2   0 15:07 ?        00:00:00 [kworker/4:1-cgroup_destroy]
root      150     2   0 15:07 ?        00:00:00 [kworker/0:1H-events_highpri]
root      151     2   0 15:07 ?        00:00:00 [kworker/2:1-events]
root      153     2   0 15:07 ?        00:00:00 [kswapd0]
root      154     2   0 15:07 ?        00:00:00 [ecryptfs-kthrea]
root      156     2   0 15:07 ?        00:00:00 [kthrotld]
root      157     2   0 15:07 ?        00:00:00 [irq/123-aerdrv]
root      158     2   0 15:07 ?        00:00:00 [irq/123-pcie-dp]
root      159     2   0 15:07 ?        00:00:00 [irq/124-aerdrv]
root      160     2   0 15:07 ?        00:00:00 [irq/124-pcie-dp]
root      161     2   0 15:07 ?        00:00:00 [acpi_thermal_pm]
root      162     2   0 15:07 ?        00:00:00 [kworker/u24:2-events_unbound]
root      163     2   0 15:07 ?        00:00:00 [kworker/8:1-events]
root      164     2   0 15:07 ?        00:00:00 [vfio-irqfd-clea]
root      165     2   0 15:07 ?        00:00:00 [mld]
root      166     2   0 15:07 ?        00:00:00 [ipv6_addrconf]
root      168     2   0 15:07 ?        00:00:00 [kworker/11:1-events]
root      176     2   0 15:07 ?        00:00:00 [kworker/7:1-mm_percpu_wq]
root      177     2   0 15:07 ?        00:00:00 [kstrp]
root      178     2   0 15:07 ?        00:00:00 [kworker/1:1-events]
root      179     2   0 15:07 ?        00:00:00 [kworker/3:1-events]
root      180     2   0 15:07 ?        00:00:00 [kworker/6:1-events]
root      181     2   0 15:07 ?        00:00:02 [kworker/9:1-events]
root      184     2   0 15:07 ?        00:00:00 [zswap-shrink]
root      186     2   0 15:07 ?        00:00:01 [kworker/u25:0-i915_flip]
root      193     2   0 15:07 ?        00:00:00 [charger_manager]
root      215     2   0 15:07 ?        00:00:00 [kworker/3:1H-events_highpri]
root      230     2   0 15:07 ?        00:00:00 [kworker/1:1H-events_highpri]
root      247     2   0 15:07 ?        00:00:00 [kworker/5:1H-events_highpri]
root      262     2   0 15:07 ?        00:00:00 [kworker/10:2-cgroup_destroy]
root      263     2   0 15:07 ?        00:00:00 [nvme-wq]
root      264     2   0 15:07 ?        00:00:00 [nvme-reset-wq]
root      265     2   0 15:07 ?        00:00:00 [nvme-delete-wq]
root      267     2   0 15:07 ?        00:00:00 [kworker/6:1H-events_highpri]
root      268     2   0 15:07 ?        00:00:00 [kworker/9:1H-events_highpri]
root      270     2   0 15:07 ?        00:00:00 [scsi_eh_0]
root      271     2   0 15:07 ?        00:00:00 [scsi_tmf_0]
root      272     2   0 15:07 ?        00:00:00 [scsi_eh_1]
root      273     2   0 15:07 ?        00:00:00 [scsi_tmf_1]
root      274     2   0 15:07 ?        00:00:00 [scsi_eh_2]
root      275     2   0 15:07 ?        00:00:00 [scsi_tmf_2]
root      276     2   0 15:07 ?        00:00:00 [scsi_eh_3]
root      277     2   0 15:07 ?        00:00:00 [scsi_tmf_3]
root      278     2   0 15:07 ?        00:00:00 [scsi_eh_4]
root      279     2   0 15:07 ?        00:00:00 [scsi_tmf_4]
root      285     2   0 15:07 ?        00:00:00 [kworker/7:1H-kblockd]
root      286     2   0 15:07 ?        00:00:00 [kworker/8:1H-kblockd]
root      292     2   0 15:07 ?        00:00:00 [kworker/11:1H-events_highpri]
root      297     2   0 15:07 ?        00:00:00 [kworker/10:1H-events_highpri]
root      298     2   0 15:07 ?        00:00:00 [kworker/2:1H-events_highpri]
root      299     2   0 15:07 ?        00:00:00 [kworker/4:1H-events_highpri]
root      304     2   0 15:07 ?        00:00:00 [kworker/11:2-cgroup_destroy]
root      331     2   0 15:07 ?        00:00:00 [jbd2/nvme0n1p8-]
root      332     2   0 15:07 ?        00:00:00 [ext4-rsv-conver]
root      345     2   0 15:07 ?        00:00:00 [kworker/7:2-events]
root      373     1   0 15:07 ?        00:00:00 /lib/systemd/systemd-journald
root      393     2   0 15:07 ?        00:00:00 [ipmi-msghandler]
root      398     1   0 15:07 ?        00:00:00 /lib/systemd/systemd-udevd
root      410     2   0 15:07 ?        00:00:00 [kworker/4:2-events]
```

```
root         470         2   0 15:07 ?        00:00:00 [kworker/6:2-events]
root         517         2   0 15:07 ?        00:00:00 [irq/141-mei_me]
root         535         2   0 15:07 ?        00:00:00 [cryptd]
root         610         2   0 15:07 ?        00:00:00 [card0-crtc0]
root         611         2   0 15:07 ?        00:00:00 [card0-crtc1]
root         612         2   0 15:07 ?        00:00:00 [card0-crtc2]
root         906         1   0 15:07 ?        00:00:00 /sbin/mount.ntfs /dev/sda1
/media/arquivos -o rw,nosuid,nodev
systemd+     934         1   0 15:09 ?         00:00:00 /lib/systemd/systemd-resolved
systemd+     937         1   0 15:09 ?         00:00:00 /lib/systemd/systemd-timesyncd
root         970         1   0 15:09 ?        00:00:00
/usr/lib/accountsservice/accounts-daemon
root         971         1   0 15:09 ?        00:00:00 /usr/sbin/acpid
avahi        974         1   0 15:09 ?         00:00:00 avahi-daemon: running
[LAB-DACC-04.local]
root         975         1   0 15:09 ?        00:00:00 /usr/sbin/cron -f
message+     977         1   0 15:09 ?         00:00:00 /usr/bin/dbus-daemon --system
--address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
root         978         1   0 15:09 ?        00:00:00 /usr/sbin/NetworkManager
--no-daemon
root         987         1   0 15:09 ?        00:00:00 /usr/sbin/irqbalance --foreground
root         991         1   0 15:09 ?        00:00:00 /usr/bin/python3
/usr/bin/networkd-dispatcher --run-startup-triggers
root         1003        1   0 15:09 ?        00:00:00 /usr/lib/policykit-1/polkitd
--no-debug
syslog       1007        1   0 15:09 ?        00:00:00 /usr/sbin/rsyslogd -n -iNONE
root         1014        1   0 15:09 ?        00:00:00 /usr/libexec/switcheroo-control
root         1015        1   0 15:09 ?        00:00:00 /lib/systemd/systemd-logind
root         1016        1   0 15:09 ?        00:00:00 /usr/sbin/thermald --systemd
--dbus-enable --adaptive
root         1017        1   0 15:09 ?        00:00:00 /usr/lib/udisks2/udisksd
root         1019        1   0 15:09 ?        00:00:00 /sbin/wpa_supplicant -u -s -O
/run/wpa_supplicant
avahi        1036      974   0 15:09 ?         00:00:00 avahi-daemon: chroot helper
root         1094        1   0 15:09 ?        00:00:00 /usr/sbin/cups-browsed
root         1103        1   0 15:09 ?        00:00:00 /usr/sbin/ModemManager
root         1117        1   0 15:09 ?        00:00:00 /usr/bin/anydesk --service
root         1135        1   0 15:09 ?        00:00:00 /usr/sbin/cupsd -l
root         1142        1   0 15:09 ?        00:00:00 sshd: /usr/sbin/sshd -D [listener] 0
of 10-100 startups
root         1240        2   0 15:09 ?        00:00:00 [iprt-VBoxWQueue]
root         1241        2   0 15:09 ?        00:00:00 [iprt-VBoxTscThr]
root         1243        2   0 15:09 ?        00:00:00 [kworker/0:2-events]
root         1313        1   0 15:09 ?        00:00:00 /usr/bin/python3
/usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-for-signal
root         1435        1   0 15:09 ?        00:00:00 /usr/sbin/nmbd --foreground
--no-process-group
whoopsie     1439        1   0 15:09 ?         00:00:00 /usr/bin/whoopsie -f
kernoops     1449        1   0 15:09 ?         00:00:00 /usr/sbin/kerneloops --test
kernoops     1457        1   0 15:09 ?         00:00:00 /usr/sbin/kerneloops
root         1465        1   0 15:09 ?        00:00:00 /usr/sbin/smbd --foreground
--no-process-group
root         1467     1465   0 15:09 ?         00:00:00 /usr/sbin/smbd --foreground
--no-process-group
root         1468     1465   0 15:09 ?         00:00:00 /usr/sbin/smbd --foreground
--no-process-group
root         1469     1465   0 15:09 ?         00:00:00 /usr/sbin/smbd --foreground
--no-process-group
root         1484        1   0 15:09 ?        00:00:00 /usr/sbin/gdm3
```

```
root            1489      1484   0 15:09 ?            00:00:00 gdm-session-worker
[pam/gdm-launch-environment]
gdm             1494         1   0 15:09 ?            00:00:00 /lib/systemd/systemd --user
gdm             1495      1494   0 15:09 ?            00:00:00 (sd-pam)
gdm             1500      1494   0 15:09 ?            00:00:00 /usr/bin/pulseaudio
--daemonize=no --log-target=journal
gdm             1502      1494   0 15:09 ?            00:00:00 /usr/libexec/tracker-miner-fs
gdm             1503      1489   0 15:09 tty1         00:00:00 /usr/lib/gdm3/gdm-x-session
dbus-run-session -- gnome-session --autostart /usr/share/gdm/greeter/autostart
gdm             1505      1503   0 15:09 tty1         00:00:02 /usr/lib/xorg/Xorg vt1 -displayfd 3
-auth /run/user/125/gdm/Xauthority -background none -noreset -keeptty -verbose 3
gdm             1508      1494   0 15:09 ?            00:00:00 /usr/bin/dbus-daemon --session
--address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
rtkit           1509         1   0 15:09 ?            00:00:00 /usr/libexec/rtkit-daemon
gdm             1516      1494   0 15:09 ?            00:00:00 /usr/libexec/gvfsd
gdm             1531      1494   0 15:09 ?            00:00:00 /usr/libexec/gvfsd-fuse
/run/user/125/gvfs -f -o big_writes
gdm             1538      1494   0 15:09 ?            00:00:00
/usr/libexec/gvfs-udisks2-volume-monitor
gdm             1545      1494   0 15:09 ?            00:00:00
/usr/libexec/gvfs-afc-volume-monitor
gdm             1550      1494   0 15:09 ?            00:00:00
/usr/libexec/gvfs-gphoto2-volume-monitor
gdm             1555      1494   0 15:09 ?            00:00:00
/usr/libexec/gvfs-mtp-volume-monitor
gdm             1559      1494   0 15:09 ?            00:00:00
/usr/libexec/gvfs-goa-volume-monitor
gdm             1563      1494   0 15:09 ?            00:00:00 /usr/libexec/goa-daemon
gdm             1571      1494   0 15:09 ?            00:00:00 /usr/libexec/goa-identity-service
root            1578         1   0 15:09 ?            00:00:00 /usr/lib/upower/upowerd
gdm             1616      1503   0 15:09 tty1         00:00:00 dbus-run-session --
gnome-session --autostart /usr/share/gdm/greeter/autostart
gdm             1617      1616   0 15:09 tty1         00:00:00 dbus-daemon --nofork
--print-address 4 --session
gdm             1618      1616   0 15:09 tty1         00:00:00
/usr/libexec/gnome-session-binary --systemd --autostart /usr/share/gdm/greeter/autostart
gdm             1623         1   0 15:09 tty1         00:00:00 /usr/libexec/at-spi-bus-launcher
gdm             1628      1623   0 15:09 tty1         00:00:00 /usr/bin/dbus-daemon
--config-file=/usr/share/defaults/at-spi2/accessibility.conf --nofork --print-address 3
gdm             1651      1618   0 15:09 tty1         00:00:01 /usr/bin/gnome-shell
gdm             1671      1651   0 15:09 tty1         00:00:00 ibus-daemon --panel disable
--xim
gdm             1674      1671   0 15:09 tty1         00:00:00 /usr/libexec/ibus-dconf
gdm             1677         1   0 15:09 tty1         00:00:00 /usr/libexec/ibus-x11
--kill-daemon
gdm             1679         1   0 15:09 tty1         00:00:00 /usr/libexec/ibus-portal
gdm             1690         1   0 15:09 tty1         00:00:00 /usr/libexec/at-spi2-registryd
--use-gnome-session
gdm             1694         1   0 15:09 tty1         00:00:00 /usr/libexec/xdg-permission-store
gdm             1710         1   0 15:09 tty1         00:00:00 /usr/bin/gjs
/usr/share/gnome-shell/org.gnome.Shell.Notifications
gdm             1725      1618   0 15:09 tty1         00:00:00 /usr/libexec/gsd-sharing
gdm             1727      1618   0 15:09 tty1         00:00:00 /usr/libexec/gsd-wacom
gdm             1728      1618   0 15:09 tty1         00:00:00 /usr/libexec/gsd-color
gdm             1729      1618   0 15:09 tty1         00:00:00 /usr/libexec/gsd-keyboard
gdm             1730      1618   0 15:09 tty1         00:00:00
/usr/libexec/gsd-print-notifications
gdm             1732      1618   0 15:09 tty1         00:00:00 /usr/libexec/gsd-rfkill
gdm             1734      1618   0 15:09 tty1         00:00:00 /usr/libexec/gsd-smartcard
```

```
gdm           1736      1618   0 15:09 tty1       00:00:00 /usr/libexec/gsd-datetime
gdm           1737      1618   0 15:09 tty1       00:00:00 /usr/libexec/gsd-media-keys
gdm           1739      1618   0 15:09 tty1       00:00:00
/usr/libexec/gsd-screensaver-proxy
gdm           1742      1618   0 15:09 tty1       00:00:00 /usr/libexec/gsd-sound
gdm           1745      1618   0 15:09 tty1       00:00:00 /usr/libexec/gsd-a11y-settings
gdm           1748      1618   0 15:09 tty1       00:00:00 /usr/libexec/gsd-housekeeping
gdm           1751      1618   0 15:09 tty1       00:00:00 /usr/libexec/gsd-power
gdm           1790         1   0 15:09 tty1       00:00:00 /usr/libexec/gsd-printer
colord        1798         1   0 15:09 ?          00:00:00 /usr/libexec/colord
gdm           1818      1671   0 15:09 tty1       00:00:00 /usr/libexec/ibus-engine-simple
root          1841         2   0 15:09 ?          00:00:00 [kworker/u25:1]
root          1852      1484   0 15:09 ?          00:00:00 gdm-session-worker
[pam/gdm-password]
aluno         1856         1   0 15:09 ?          00:00:00 /lib/systemd/systemd --user
aluno         1857      1856   0 15:09 ?          00:00:00 (sd-pam)
aluno         1862      1856   0 15:09 ?          00:00:00 /usr/bin/pulseaudio
--daemonize=no --log-target=journal
aluno         1864      1856   0 15:09 ?          00:00:00 /usr/libexec/tracker-miner-fs
aluno         1869         1   0 15:09 ?          00:00:00 /usr/bin/gnome-keyring-daemon
--daemonize --login
aluno         1870      1856   0 15:09 ?          00:00:00 /usr/bin/dbus-daemon --session
--address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
aluno         1888      1856   0 15:09 ?          00:00:00 /usr/libexec/gvfsd
aluno         1894      1856   0 15:09 ?          00:00:00 /usr/libexec/gvfsd-fuse
/run/user/1001/gvfs -f -o big_writes
aluno         1901      1856   0 15:09 ?          00:00:00
/usr/libexec/gvfs-udisks2-volume-monitor
aluno         1910      1856   0 15:09 ?          00:00:00
/usr/libexec/gvfs-afc-volume-monitor
aluno         1915      1856   0 15:09 ?          00:00:00
/usr/libexec/gvfs-gphoto2-volume-monitor
aluno         1920      1856   0 15:09 ?          00:00:00
/usr/libexec/gvfs-mtp-volume-monitor
aluno         1924      1856   0 15:09 ?          00:00:00
/usr/libexec/gvfs-goa-volume-monitor
aluno         1928      1856   0 15:09 ?          00:00:00 /usr/libexec/goa-daemon
aluno         1935      1856   0 15:09 ?          00:00:00 /usr/libexec/goa-identity-service
aluno         1951      1852   0 15:09 tty2       00:00:00 /usr/lib/gdm3/gdm-x-session
--run-script env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --systemd
--session=ubuntu
aluno         1953      1951   3 15:09 tty2       00:00:43 /usr/lib/xorg/Xorg vt2 -displayfd 3
-auth /run/user/1001/gdm/Xauthority -background none -noreset -keeptty -verbose 3
aluno         1969      1951   0 15:09 tty2       00:00:00 /usr/libexec/gnome-session-binary
--systemd --systemd --session=ubuntu
aluno         2043      1969   0 15:09 ?          00:00:00 /usr/bin/ssh-agent
/usr/bin/im-launch env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session
--systemd --session=ubuntu
aluno         2061      1856   0 15:09 ?          00:00:00 /usr/libexec/at-spi-bus-launcher
aluno         2066      2061   0 15:09 ?          00:00:00 /usr/bin/dbus-daemon
--config-file=/usr/share/defaults/at-spi2/accessibility.conf --nofork --print-address 3
aluno         2074      1856   0 15:09 ?          00:00:00 /usr/libexec/gnome-session-ctl
--monitor
aluno         2081      1856   0 15:09 ?          00:00:00 /usr/libexec/gnome-session-binary
--systemd-service --session=ubuntu
aluno         2095      1856   3 15:09 ?          00:00:44 /usr/bin/gnome-shell
aluno         2121      2095   0 15:09 ?          00:00:00 ibus-daemon --panel disable --xim
aluno         2125      2121   0 15:09 ?          00:00:00 /usr/libexec/ibus-dconf
aluno         2126      2121   0 15:09 ?          00:00:00 /usr/libexec/ibus-extension-gtk3
```

```
aluno        2128    1856   0 15:09 ?          00:00:00 /usr/libexec/ibus-x11
--kill-daemon
aluno        2130    1856   0 15:09 ?          00:00:00 /usr/libexec/ibus-portal
aluno        2144    1856   0 15:09 ?          00:00:00 /usr/libexec/at-spi2-registryd
--use-gnome-session
aluno        2148    1856   0 15:09 ?          00:00:00 /usr/libexec/xdg-permission-store
aluno        2150    1856   0 15:09 ?          00:00:00
/usr/libexec/gnome-shell-calendar-server
aluno        2159    1856   0 15:09 ?          00:00:00
/usr/libexec/evolution-source-registry
aluno        2168    1856   0 15:09 ?          00:00:00
/usr/libexec/evolution-calendar-factory
aluno        2172    1856   0 15:09 ?          00:00:00 /usr/libexec/dconf-service
aluno        2181    1856   0 15:09 ?          00:00:00
/usr/libexec/evolution-addressbook-factory
aluno        2198    1856   0 15:09 ?          00:00:00 /usr/bin/gjs
/usr/share/gnome-shell/org.gnome.Shell.Notifications
aluno        2210    1888   0 15:09 ?          00:00:00 /usr/libexec/gvfsd-trash
--spawner :1.3 /org/gtk/gvfs/exec_spaw/0
aluno        2222    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-a11y-settings
aluno        2223    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-color
aluno        2224    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-datetime
aluno        2225    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-housekeeping
aluno        2228    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-keyboard
aluno        2231    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-media-keys
aluno        2233    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-power
aluno        2236    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-print-notifications
aluno        2238    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-rfkill
aluno        2239    1856   0 15:09 ?          00:00:00
/usr/libexec/gsd-screensaver-proxy
aluno        2240    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-sharing
aluno        2243    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-smartcard
aluno        2244    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-sound
aluno        2247    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-usb-protection
aluno        2249    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-wacom
aluno        2253    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-wwan
aluno        2254    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-xsettings
aluno        2263    2081   0 15:09 ?          00:00:00
/usr/lib/x86_64-linux-gnu/libexec/kdeconnectd
aluno        2265    2081   0 15:09 ?          00:00:00 /usr/bin/anydesk --tray
aluno        2268    2081   0 15:09 ?          00:00:00 /usr/libexec/gsd-disk-utility-notify
aluno        2275    2081   0 15:09 ?          00:00:00
/usr/lib/x86_64-linux-gnu/indicator-messages/indicator-messages-service
aluno        2287    2081   0 15:09 ?          00:00:00
/usr/libexec/evolution-data-server/evolution-alarm-notify
aluno        2320    2121   0 15:09 ?          00:00:00 /usr/libexec/ibus-engine-simple
aluno        2338    1856   0 15:09 ?          00:00:00 /usr/libexec/gsd-printer
aluno        2512    2081   0 15:09 ?          00:00:00 zeitgeist-datahub
aluno        2521    1856   0 15:09 ?          00:00:00 /usr/bin/zeitgeist-daemon
aluno        2529    1856   0 15:09 ?          00:00:00 /usr/lib/zeitgeist/zeitgeist-fts
aluno        2578    1856   0 15:10 ?          00:00:00 /usr/bin/gnome-calendar
--gapplication-service
aluno        2583    1856   0 15:10 ?          00:00:12
/usr/libexec/gnome-terminal-server
aluno        2659    2583   0 15:10 pts/0      00:00:00 bash
aluno        2671    1856   6 15:10 ?          00:01:20 /usr/lib/firefox/firefox
-new-window
aluno        2708    1856   0 15:10 ?          00:00:00 /usr/libexec/xdg-desktop-portal
aluno        2712    1856   0 15:10 ?          00:00:00 /usr/libexec/xdg-document-portal
```

```
aluno        2722    1856   0 15:10 ?            00:00:00
/usr/libexec/xdg-desktop-portal-gtk
aluno        2770    2671   0 15:10 ?            00:00:00 /usr/lib/firefox/firefox -contentproc
-parentBuildID 20220818191623 -prefsLen 26421 -prefMapSize 226883 -appDir
/usr/lib/firefox/browser 2671 true socket
aluno        2815    2671   0 15:10 ?            00:00:01 /usr/lib/firefox/firefox -contentproc
-childID 1 -isForBrowser -prefsLen 26497 -prefMapSize 226883 -jsInitLen 247228
-parentBuildID 20220818191623 -appDir /usr
aluno        2861    2671   0 15:10 ?            00:00:00 /usr/lib/firefox/firefox -contentproc
-childID 2 -isForBrowser -prefsLen 31201 -prefMapSize 226883 -jsInitLen 247228
-parentBuildID 20220818191623 -appDir /usr
aluno        2932    2671   2 15:10 ?            00:00:33 /usr/lib/firefox/firefox -contentproc
-childID 3 -isForBrowser -prefsLen 32038 -prefMapSize 226883 -jsInitLen 247228
-parentBuildID 20220818191623 -appDir /usr
aluno        2935    2671   0 15:10 ?            00:00:00 /usr/lib/firefox/firefox -contentproc
-childID 4 -isForBrowser -prefsLen 32038 -prefMapSize 226883 -jsInitLen 247228
-parentBuildID 20220818191623 -appDir /usr
aluno        2939    2671   0 15:10 ?            00:00:00 /usr/lib/firefox/firefox -contentproc
-childID 5 -isForBrowser -prefsLen 32038 -prefMapSize 226883 -jsInitLen 247228
-parentBuildID 20220818191623 -appDir /usr
root         3002       2   0 15:10 ?            00:00:00 [kworker/5:2-rcu_gp]
aluno        3010    1856   0 15:10 ?            00:00:00 /usr/libexec/gvfsd-metadata
aluno        3013    2081   0 15:10 ?            00:00:00 update-notifier
aluno        3063    2671   0 15:11 ?            00:00:00 /usr/lib/firefox/firefox -contentproc
-childID 6 -isForBrowser -prefsLen 32420 -prefMapSize 226883 -jsInitLen 247228
-parentBuildID 20220818191623 -appDir /usr
root         3130       2   0 15:13 ?            00:00:00 [kworker/8:0-mm_percpu_wq]
root         3266       2   0 15:14 ?            00:00:00 [kworker/2:0-cgroup_destroy]
root         3683       2   0 15:14 ?            00:00:00 [kworker/3:0-events]
root         3706       1   0 15:14 ?            00:00:02 /usr/lib/snapd/snapd
root         3777       2   0 15:14 ?            00:00:00 [kworker/10:0-events]
root         3964       2   0 15:21 ?            00:00:00 [kworker/u24:1-events_unbound]
root         3993       2   0 15:24 ?            00:00:00 [kworker/1:2-events]
root         3994       2   0 15:24 ?            00:00:00 [kworker/9:2-rcu_gp]
root         4012       2   0 15:26 ?            00:00:00
[kworker/u24:0-ext4-rsv-conversion]
aluno        4034    2659   0 15:30 pts/0    00:00:00 cat
aluno        4040    2659   0 15:30 pts/0    00:00:00 cat
root         4043       2   0 15:30 ?            00:00:00 [kworker/10:1-cgroup_destroy]
root         4045       2   0 15:31 ?            00:00:00 [kworker/9:0]
aluno        4047    2659   0 15:31 pts/0    00:00:00 cat
root         4077       2   0 15:31 ?            00:00:00 [kworker/5:0]
aluno        4084    2659   0 15:31 pts/0    00:00:00 cat
root         4092       2   0 15:31 ?            00:00:00 [kworker/11:0-cgroup_destroy]
aluno        4144    2659   0 15:32 pts/0    00:00:00 ps -ef
aluno@LAB-DACC-04:~$ ps -ef | wc -l
344
aluno@LAB-DACC-04:~$ top

top - 15:33:35 up 26 min,   1 user,   load average: 0,37, 0,24, 0,19
Tarefas: 348 total,    1 em exec., 343 dormindo,    4 parado,    0 zumbi
%CPU(s):   1,2 us,   1,0 sis,   0,0 ni, 97,8 oc,   0,0 ag,   0,0 ih,   0,0 is   0,0 tr
MB mem :   15808,6 total,   11504,2 livre,   1691,5 usados,   2613,0 buff/cache
MB swap:    3906,0 total,    3906,0 livre,      0,0 usados,   13244,7 mem dispon.

    PID USUARIO    PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TEMPO+
COMANDO
   1953 aluno      20   0  606972 120284  70200 S   5,6   0,7    0:48.03 Xorg
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
2583	aluno	20	0	817492	52944	39636	S	5,6	0,3	0:15.43	gnome-terminal-
2095	aluno	20	0	5342908	295112	115528	S	3,3	1,8	0:49.20	gnome-shell
4311	aluno	20	0	790952	324156	226892	S	3,3	2,0	0:01.52	wps
2144	aluno	20	0	162840	7708	6924	S	0,7	0,0	0:00.62	at-spi2-registr
2168	aluno	20	0	1323068	31460	27104	S	0,7	0,2	0:00.16	evolution-calen
2671	aluno	20	0	3914080	475544	269116	S	0,7	2,9	1:24.02	firefox
2708	aluno	20	0	463364	11048	9784	S	0,7	0,1	0:00.13	xdg-desktop-por
4213	aluno	20	0	4718088	255836	201832	S	0,7	1,6	0:02.18	wpsoffice
69	root	20	0	0	0	0	S	0,3	0,0	0:01.17	ksoftirqd/9
181	root	20	0	0	0	0	I	0,3	0,0	0:02.33	kworker/9:1-events
373	root	19	-1	54496	20216	18444	S	0,3	0,1	0:00.48	systemd-journal
977	message+	20	0	8800	5732	3824	S	0,3	0,0	0:00.76	dbus-daemon
978	root	20	0	336752	20452	17492	S	0,3	0,1	0:00.65	NetworkManager
1725	gdm	20	0	465468	10292	9100	S	0,3	0,1	0:00.24	gsd-sharing
1870	aluno	20	0	8652	5820	3844	S	0,3	0,0	0:00.48	dbus-daemon
2159	aluno	20	0	391328	25928	22212	S	0,3	0,2	0:00.08	evolution-sourc
2181	aluno	20	0	748096	30512	26736	S	0,3	0,2	0:00.07	evolution-addre
2240	aluno	20	0	465476	10480	9340	S	0,3	0,1	0:00.25	gsd-sharing
2578	aluno	20	0	865652	57632	42264	S	0,3	0,4	0:00.29	gnome-calendar
4297	aluno	20	0	560356	227332	158648	S	0,3	1,4	0:00.31	wpp
4762	aluno	20	0	12308	4144	3280	R	0,3	0,0	0:00.07	top
1	root	20	0	169952	13292	8316	S	0,0	0,1	0:02.25	systemd
2	root	20	0	0	0	0	S	0,0	0,0	0:00.00	kthreadd
3	root	0	-20	0	0	0	I	0,0	0,0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0,0	0,0	0:00.00	rcu_par_gp
5	root	0	-20	0	0	0	I	0,0	0,0	0:00.00	netns
7	root	0	-20	0	0	0	I	0,0	0,0	0:00.00	kworker/0:0H-events_highpri
9	root	0	-20	0	0	0	I	0,0	0,0	0:00.00	mm_percpu_wq
10	root	20	0	0	0	0	S	0,0	0,0	0:00.00	rcu_tasks_rude_
11	root	20	0	0	0	0	S	0,0	0,0	0:00.00	rcu_tasks_trace
12	root	20	0	0	0	0	S	0,0	0,0	0:00.01	ksoftirqd/0
13	root	20	0	0	0	0	I	0,0	0,0	0:01.61	rcu_sched
14	root	rt	0	0	0	0	S	0,0	0,0	0:00.01	migration/0
15	root	-51	0	0	0	0	S	0,0	0,0	0:00.00	idle_inject/0
16	root	20	0	0	0	0	I	0,0	0,0	0:00.20	kworker/0:1-mm_percpu_wq
17	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/0
18	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/1
19	root	-51	0	0	0	0	S	0,0	0,0	0:00.00	idle_inject/1
20	root	rt	0	0	0	0	S	0,0	0,0	0:00.11	migration/1
21	root	20	0	0	0	0	S	0,0	0,0	0:00.01	ksoftirqd/1
23	root	0	-20	0	0	0	I	0,0	0,0	0:00.00	kworker/1:0H-events_highpri

```
      24 root       20    0        0       0       0 S    0,0    0,0    0:00.00 cpuhp/2
      25 root      -51    0        0       0       0 S    0,0    0,0    0:00.00 idle_inject/2
      26 root       rt    0        0       0       0 S    0,0    0,0    0:00.11 migration/2
      27 root       20    0        0       0       0 S    0,0    0,0    0:00.01 ksoftirqd/2
      29 root        0  -20        0       0       0 I    0,0    0,0    0:00.00
kworker/2:0H-events_highpri
      30 root       20    0        0       0       0 S    0,0    0,0    0:00.00 cpuhp/3
aluno@LAB-DACC-04:~$ top -o %MEM

top - 15:34:17 up 26 min,   1 user,   load average: 0,40, 0,27, 0,20
Tarefas: 349 total,    1 em exec., 344 dormindo,    4 parado,    0 zumbi
%CPU(s):   0,5 us,   0,2 sis,   0,0 ni, 99,3 oc,   0,0 ag,   0,0 ih,   0,0 is   0,0 tr
MB mem :   15808,6 total,   11500,9 livre,   1694,7 usados,    2613,1 buff/cache
MB swap:    3906,0 total,    3906,0 livre,       0,0 usados,   13241,8 mem dispon.

     PID USUARIO   PR  NI     VIRT     RES     SHR S   %CPU   %MEM      TEMPO+
COMANDO
    2671 aluno     20   0 3913572 475596 269116 S    1,0    2,9    1:24.84 firefox
    4311 aluno     20   0  790952 325040 227336 S    1,3    2,0    0:03.54 wps
    2095 aluno     20   0 5342980 295080 115528 S    1,0    1,8    0:50.83 gnome-shell
    2932 aluno     20   0 2659080 262260 166336 S    0,0    1,6    0:34.71 Isolated
Web Co
    4213 aluno     20   0 4627932 256876 202648 S    1,3    1,6    0:02.60 wpsoffice
    4297 aluno     20   0  561380 227340 158648 S    0,0    1,4    0:00.36 wpp
    1651 gdm       20   0 4356568 195872 109380 S    0,0    1,2    0:01.40
gnome-shell
    1953 aluno     20   0  606972 120284  70200 S    1,0    0,7    0:50.05 Xorg
    2815 aluno     20   0 2433140 111688  89728 S    0,0    0,7    0:01.41 Privileged
Cont
    2861 aluno     20   0 2436116  99352  80264 S    0,0    0,6    0:00.60
WebExtensions
    1505 gdm       20   0  514408  85932  50428 S    0,0    0,5    0:02.16 Xorg
    3063 aluno     20   0 2400476  76220  64952 S    0,0    0,5    0:00.12 Web
Content
    2935 aluno     20   0 2400476  76136  64856 S    0,0    0,5    0:00.11 Web
Content
    2939 aluno     20   0 2400476  76024  64744 S    0,0    0,5    0:00.11 Web
Content
    2287 aluno     20   0  643732  59964  43784 S    0,0    0,4    0:00.37
evolution-alarm
    2578 aluno     20   0  865652  57632  42264 S    0,0    0,4    0:00.30
gnome-calendar
    2263 aluno     20   0  502936  57020  43924 S    0,0    0,4    0:00.91
kdeconnectd
    2583 aluno     20   0  817492  52944  39636 S    1,0    0,3    0:16.69
gnome-terminal-
    4247 aluno     20   0  238380  50612  42584 S    0,0    0,3    0:00.01
promecefpluginh
    2770 aluno     20   0  202928  44000  36344 S    0,0    0,3    0:00.06 Socket
Process
    3706 root      20   0 1761204  38120  19248 S    0,0    0,2    0:02.03 snapd
    1563 gdm       20   0  550256  35404  29128 S    0,0    0,2    0:00.05
goa-daemon
    1928 aluno     20   0  550268  35324  29024 S    0,0    0,2    0:00.04
goa-daemon
    2231 aluno     20   0  902632  32592  21812 S    0,0    0,2    0:00.31
gsd-media-keys
    2126 aluno     20   0  276920  32184  18496 S    0,0    0,2    0:00.98
ibus-extension-
```

```
    2168 aluno      20    0 1323068   31436   27104 S   0,3   0,2   0:00.20
evolution-calen
    2254 aluno      20    0  348072   30840   20148 S   0,0   0,2   0:00.33
gsd-xsettings
    2223 aluno      20    0  579632   30816   20596 S   0,0   0,2   0:00.26 gsd-color
    2722 aluno      20    0  495360   30668   21108 S   0,0   0,2   0:00.43
xdg-desktop-por
    2181 aluno      20    0  748096   30512   26736 S   0,3   0,2   0:00.09
evolution-addre
    2233 aluno      20    0  495032   30200   19904 S   0,0   0,2   0:00.29 gsd-power
    3013 aluno      20    0  420700   30168   20676 S   0,0   0,2   0:00.24
update-notifier
    2228 aluno      20    0  347168   29648   19604 S   0,0   0,2   0:00.28
gsd-keyboard
    2249 aluno      20    0  346500   28952   18756 S   0,0   0,2   0:00.31 gsd-wacom
    2128 aluno      20    0  198936   28844   18892 S   0,0   0,2   0:00.29 ibus-x11
    1710 gdm       20    0 2930784   27304   22252 S   0,0   0,2   0:00.04 gjs
    2198 aluno      20    0 2930884   27188   22028 S   0,0   0,2   0:00.06 gjs
    2265 aluno      20    0  586944   26500   22780 S   0,0   0,2   0:00.13 anydesk
    2159 aluno      20    0  391328   25928   22212 S   0,3   0,2   0:00.10
evolution-sourc
    1465 root      20    0   87204   25288   22228 S   0,0   0,2   0:00.04 smbd
    1502 gdm       39   19  512308   25112   16632 S   0,0   0,2   0:00.06
tracker-miner-f
    1864 aluno      39   19  512296   25100   16712 S   0,0   0,2   0:00.08
tracker-miner-f
    1313 root      20    0  118160   22812   14644 S   0,0   0,1   0:00.04
unattended-upgr
    1117 root      20    0  403012   22400   17348 S   0,0   0,1   0:00.64 anydesk
    1737 gdm       20    0  753480   21352   18432 S   0,0   0,1   0:00.03
gsd-media-keys
    1728 gdm       20    0  496544   20868   18384 S   0,0   0,1   0:00.07 gsd-color
     991 root      20    0   39960   20636   11896 S   0,0   0,1   0:00.09
networkd-dispat
     978 root      20    0  336752   20452   17492 S   0,7   0,1   0:00.69
NetworkManager
    aluno@LAB-DACC-04:~$ ps | grep cat | xargs | cut -d" " -f1
    4034
    aluno@LAB-DACC-04:~$ kill 4034
    aluno@LAB-DACC-04:~$ ps | grep cat
       4034 pts/0     00:00:00 cat
       4040 pts/0     00:00:00 cat
       4047 pts/0     00:00:00 cat
       4084 pts/0     00:00:00 cat
    aluno@LAB-DACC-04:~$ kill -9 4034
    aluno@LAB-DACC-04:~$ ps | grep cat
       4040 pts/0     00:00:00 cat
       4047 pts/0     00:00:00 cat
       4084 pts/0     00:00:00 cat
    [1]   Morto                   cat
    aluno@LAB-DACC-04:~$ cat&
    [5] 5320
    aluno@LAB-DACC-04:~$ cat&
    [6] 5321

    [5]+   Parado                  cat
    aluno@LAB-DACC-04:~$ cat &
    [7] 5322
```

```
    [6]+  Parado                    cat
    aluno@LAB-DACC-04:~$ cat &
    [8] 5323

    [7]+  Parado                    cat
    aluno@LAB-DACC-04:~$ ps | grep cat
      4040 pts/0      00:00:00 cat
      4047 pts/0      00:00:00 cat
      4084 pts/0      00:00:00 cat
      5320 pts/0      00:00:00 cat
      5321 pts/0      00:00:00 cat
      5322 pts/0      00:00:00 cat
      5323 pts/0      00:00:00 cat

    [8]+  Parado                    cat
    aluno@LAB-DACC-04:~$ killall -9 cat
    [2]   Morto                     cat
    [3]   Morto                     cat
    [4]   Morto                     cat
    [5]   Morto                     cat
    [6]   Morto                     cat
    [7]-  Morto                     cat
    [8]+  Morto                     cat
    aluno@LAB-DACC-04:~$ free
                total        usada        livre    compart.  buff/cache   disponível
    Mem.:     16188044      1691520     11847108     557448     2649416
13643328
    Swap:      3999740            0      3999740
    aluno@LAB-DACC-04:~$ free -h
                total        usada        livre    compart.  buff/cache   disponível
    Mem.:        15Gi        1,6Gi         11Gi      536Mi       2,5Gi
13Gi
    Swap:       3,8Gi          0B        3,8Gi
    aluno@LAB-DACC-04:~$ ps -ef | grep -v grep | grep
"systemd-udevd\|systemd-resolved\|systemd-timesyncd\|systemd-logind\|cron\|rsyslogd\|at
d\|thermald\|acpid\|cuspd\|Xorg"
    root         398       1   0 15:07 ?           00:00:00 /lib/systemd/systemd-udevd
    systemd+     934       1   0 15:09 ?           00:00:00
/lib/systemd/systemd-resolved
    systemd+     937       1   0 15:09 ?           00:00:00
/lib/systemd/systemd-timesyncd
    root         971       1   0 15:09 ?           00:00:00 /usr/sbin/acpid
    root         975       1   0 15:09 ?           00:00:00 /usr/sbin/cron -f
    syslog      1007       1   0 15:09 ?           00:00:00 /usr/sbin/rsyslogd -n -iNONE
    root        1015       1   0 15:09 ?           00:00:00 /lib/systemd/systemd-logind
    root        1016       1   0 15:09 ?           00:00:00 /usr/sbin/thermald --systemd
--dbus-enable --adaptive
    gdm         1505    1503   0 15:09 tty1        00:00:02 /usr/lib/xorg/Xorg vt1
-displayfd 3 -auth /run/user/125/gdm/Xauthority -background none -noreset -keeptty
-verbose 3
    aluno       1953    1951   2 15:09 tty2        00:01:01 /usr/lib/xorg/Xorg vt2
-displayfd 3 -auth /run/user/1001/gdm/Xauthority -background none -noreset -keeptty
-verbose 3
```

config DEFAULT_INIT

       string "Default init path"

       default ""

       help   This option determines the default init for the system if no

init=   option is passed on the kernel command line. If the requested path

is   not present, we will still then move on to attempting further locations (e.g. **/sbin/init**, etc). If this is empty, we will just use   the fallback list when init= is not passed.

```
if (execute_command) {
                ret = run_init_process(execute_command);
                if (!ret)
                        return 0;
                panic("Requested init %s failed (error %d).",
                        execute_command, ret);
        }

        if (CONFIG_DEFAULT_INIT[0] != '\0') {
                ret = run_init_process(CONFIG_DEFAULT_INIT);
                if (ret)
                        pr_err("Default init %s failed (error %d)\n",
                                CONFIG_DEFAULT_INIT, ret);
                else
                        return 0;
        }

        if (!try_to_run_init_process("/sbin/init") ||
            !try_to_run_init_process("/etc/init") ||
            !try_to_run_init_process("/bin/init") ||
            !try_to_run_init_process("/bin/sh"))
                return 0;
panic("No working init found.   Try passing init= option to kernel. "
                "See Linux Documentation/admin-guide/init.rst for
guidance.");}
```
```
    aluno@LAB-DACC-04:~$ cat /proc/cmdline
    BOOT_IMAGE=/boot/vmlinuz-5.15.0-48-generic
root=UUID=bf741425-5ad0-4865-ad66-906781c30d34 ro quiet splash vt.handoff=7
    aluno@LAB-DACC-04:~$ ls -fd /sbin/init /etc/init /bin/init
    ls: não foi possível acessar '/bin/init': Arquivo ou diretório inexistente
    /sbin/init   /etc/init
    aluno@LAB-DACC-04:~$ ls -fd /sbin/init /etc/init /sbin/init
    /sbin/init   /etc/init   /sbin/init
    aluno@LAB-DACC-04:~$ ls -lh /sbin/init
    lrwxrwxrwx 1 root root 20 abr 21 08:54 /sbin/init -> /lib/systemd/systemd
    aluno@LAB-DACC-04:~$ ls /lib/systemd/system/*.service
    /lib/systemd/system/accounts-daemon.service
/lib/systemd/system/motd-news.service
/lib/systemd/system/systemd-fsckd.service
    /lib/systemd/system/acpid.service
/lib/systemd/system/networkd-dispatcher.service
/lib/systemd/system/systemd-fsck-root.service
    /lib/systemd/system/alsa-restore.service
/lib/systemd/system/NetworkManager-dispatcher.service
/lib/systemd/system/systemd-fsck@.service
```

```
        /lib/systemd/system/alsa-state.service
/lib/systemd/system/network-manager.service
/lib/systemd/system/systemd-halt.service
        /lib/systemd/system/alsa-utils.service
/lib/systemd/system/NetworkManager.service
/lib/systemd/system/systemd-hibernate-resume@.service
        /lib/systemd/system/anacron.service
/lib/systemd/system/NetworkManager-wait-online.service
/lib/systemd/system/systemd-hibernate.service
        /lib/systemd/system/apparmor.service
/lib/systemd/system/nmbd.service
/lib/systemd/system/systemd-hostnamed.service
        /lib/systemd/system/apport-autoreport.service
/lib/systemd/system/nvidia-persistenced.service
/lib/systemd/system/systemd-hwdb-update.service
        /lib/systemd/system/apport-forward@.service
/lib/systemd/system/nvidia-powerd.service
/lib/systemd/system/systemd-hybrid-sleep.service
        /lib/systemd/system/apt-daily.service
/lib/systemd/system/ondemand.service
/lib/systemd/system/systemd-initctl.service
        /lib/systemd/system/apt-daily-upgrade.service
/lib/systemd/system/openvpn-client@.service
/lib/systemd/system/systemd-journald.service
        /lib/systemd/system/autovt@.service
/lib/systemd/system/openvpn-server@.service
/lib/systemd/system/systemd-journald@.service
        /lib/systemd/system/avahi-daemon.service
/lib/systemd/system/openvpn.service
/lib/systemd/system/systemd-journal-flush.service
        /lib/systemd/system/binfmt-support.service
/lib/systemd/system/openvpn@.service
/lib/systemd/system/systemd-kexec.service
        /lib/systemd/system/bluetooth.service
/lib/systemd/system/packagekit-offline-update.service
/lib/systemd/system/systemd-localed.service
        /lib/systemd/system/bolt.service
/lib/systemd/system/packagekit.service
/lib/systemd/system/systemd-logind.service
        /lib/systemd/system/brltty.service
/lib/systemd/system/plymouth-halt.service
/lib/systemd/system/systemd-machine-id-commit.service
        /lib/systemd/system/brltty-udev.service
/lib/systemd/system/plymouth-kexec.service
/lib/systemd/system/systemd-modules-load.service
        /lib/systemd/system/clean-mount-point@.service
/lib/systemd/system/plymouth-log.service
/lib/systemd/system/systemd-networkd.service
        /lib/systemd/system/colord.service
/lib/systemd/system/plymouth-poweroff.service
/lib/systemd/system/systemd-networkd-wait-online.service
        /lib/systemd/system/configure-printer@.service
/lib/systemd/system/plymouth-quit.service
/lib/systemd/system/systemd-network-generator.service
        /lib/systemd/system/console-getty.service
/lib/systemd/system/plymouth-quit-wait.service
/lib/systemd/system/systemd-poweroff.service
```

```
        /lib/systemd/system/console-setup.service
/lib/systemd/system/plymouth-read-write.service
/lib/systemd/system/systemd-pstore.service
        /lib/systemd/system/container-getty@.service
/lib/systemd/system/plymouth-reboot.service
/lib/systemd/system/systemd-quotacheck.service
        /lib/systemd/system/cron.service
/lib/systemd/system/plymouth.service
/lib/systemd/system/systemd-random-seed.service
        /lib/systemd/system/cryptdisks-early.service
/lib/systemd/system/plymouth-start.service
/lib/systemd/system/systemd-reboot.service
        /lib/systemd/system/cryptdisks.service
/lib/systemd/system/plymouth-switch-root.service
/lib/systemd/system/systemd-remount-fs.service
        /lib/systemd/system/cups-browsed.service
/lib/systemd/system/polkit.service
/lib/systemd/system/systemd-resolved.service
        /lib/systemd/system/cups.service
/lib/systemd/system/pppd-dns.service
/lib/systemd/system/systemd-rfkill.service
        /lib/systemd/system/dbus-org.freedesktop.hostname1.service
/lib/systemd/system/procps.service
/lib/systemd/system/systemd-suspend.service
        /lib/systemd/system/dbus-org.freedesktop.locale1.service
/lib/systemd/system/pulseaudio-enable-autospawn.service
/lib/systemd/system/systemd-suspend-then-hibernate.service
        /lib/systemd/system/dbus-org.freedesktop.login1.service
/lib/systemd/system/quotaon.service
/lib/systemd/system/systemd-sysctl.service
        /lib/systemd/system/dbus-org.freedesktop.timedate1.service
/lib/systemd/system/rc-local.service
/lib/systemd/system/systemd-sysusers.service
        /lib/systemd/system/dbus.service
/lib/systemd/system/rc.service
/lib/systemd/system/systemd-timedated.service
        /lib/systemd/system/debug-shell.service
/lib/systemd/system/rcS.service
/lib/systemd/system/systemd-timesyncd.service
        /lib/systemd/system/dmesg.service
/lib/systemd/system/rescue.service
/lib/systemd/system/systemd-time-wait-sync.service
        /lib/systemd/system/e2scrub_all.service
/lib/systemd/system/rsync.service
/lib/systemd/system/systemd-tmpfiles-clean.service
        /lib/systemd/system/e2scrub_fail@.service
/lib/systemd/system/rsyslog.service
/lib/systemd/system/systemd-tmpfiles-setup-dev.service
        /lib/systemd/system/e2scrub_reap.service
/lib/systemd/system/rtkit-daemon.service
/lib/systemd/system/systemd-tmpfiles-setup.service
        /lib/systemd/system/e2scrub@.service
/lib/systemd/system/samba-ad-dc.service
/lib/systemd/system/systemd-udevd.service
        /lib/systemd/system/emergency.service
/lib/systemd/system/saned.service
/lib/systemd/system/systemd-udev-settle.service
```

/lib/systemd/system/fprintd.service
/lib/systemd/system/saned@.service
/lib/systemd/system/systemd-udev-trigger.service
/lib/systemd/system/friendly-recovery.service
/lib/systemd/system/screen-cleanup.service
/lib/systemd/system/systemd-update-utmp-runlevel.service
/lib/systemd/system/fstrim.service
/lib/systemd/system/secureboot-db.service
/lib/systemd/system/systemd-update-utmp.service
/lib/systemd/system/fwupd-offline-update.service
/lib/systemd/system/serial-getty@.service
/lib/systemd/system/systemd-user-sessions.service
/lib/systemd/system/fwupd-refresh.service
/lib/systemd/system/setvtrgb.service
/lib/systemd/system/systemd-volatile-root.service
/lib/systemd/system/fwupd.service
/lib/systemd/system/smbd.service
/lib/systemd/system/system-update-cleanup.service
/lib/systemd/system/gdm3.service
/lib/systemd/system/snapd.apparmor.service
/lib/systemd/system/thermald.service
/lib/systemd/system/gdm.service
/lib/systemd/system/snapd.autoimport.service
/lib/systemd/system/ua-license-check.service
/lib/systemd/system/geoclue.service
/lib/systemd/system/snapd.core-fixup.service
/lib/systemd/system/ua-reboot-cmds.service
/lib/systemd/system/getty@.service
/lib/systemd/system/snapd.failure.service
/lib/systemd/system/ua-timer.service
/lib/systemd/system/getty-static.service
/lib/systemd/system/snapd.recovery-chooser-trigger.service
/lib/systemd/system/udev.service
/lib/systemd/system/gpu-manager.service
/lib/systemd/system/snapd.seeded.service
/lib/systemd/system/udisks2.service
/lib/systemd/system/grub-common.service
/lib/systemd/system/snapd.service
/lib/systemd/system/ufw.service
/lib/systemd/system/grub-initrd-fallback.service
/lib/systemd/system/snapd.snap-repair.service
/lib/systemd/system/unattended-upgrades.service
/lib/systemd/system/hwclock.service
/lib/systemd/system/snapd.system-shutdown.service
/lib/systemd/system/upower.service
/lib/systemd/system/iio-sensor-proxy.service
/lib/systemd/system/speech-dispatcherd.service
/lib/systemd/system/usb_modeswitch@.service
/lib/systemd/system/initrd-cleanup.service
/lib/systemd/system/speech-dispatcher.service
/lib/systemd/system/usbmuxd.service
/lib/systemd/system/initrd-parse-etc.service
/lib/systemd/system/spice-vdagentd.service
/lib/systemd/system/user-runtime-dir@.service
/lib/systemd/system/initrd-switch-root.service
/lib/systemd/system/spice-vdagent.service
/lib/systemd/system/user@.service

```
        /lib/systemd/system/initrd-udevadm-cleanup-db.service
/lib/systemd/system/ssh.service
/lib/systemd/system/uuidd.service
        /lib/systemd/system/ippusbxd@.service
/lib/systemd/system/ssh@.service
/lib/systemd/system/vboxautostart-service.service
        /lib/systemd/system/irqbalance.service
/lib/systemd/system/sudo.service
/lib/systemd/system/vboxballoonctrl-service.service
        /lib/systemd/system/kerneloops.service
/lib/systemd/system/switcheroo-control.service
/lib/systemd/system/vboxdrv.service
        /lib/systemd/system/keyboard-setup.service
/lib/systemd/system/systemd-ask-password-console.service
/lib/systemd/system/vboxweb-service.service
        /lib/systemd/system/kmod.service
/lib/systemd/system/systemd-ask-password-plymouth.service
/lib/systemd/system/wacom-inputattach@.service
        /lib/systemd/system/kmod-static-nodes.service
/lib/systemd/system/systemd-ask-password-wall.service
/lib/systemd/system/whoopsie.service
        /lib/systemd/system/lightdm.service
/lib/systemd/system/systemd-backlight@.service
/lib/systemd/system/wpa_supplicant-nl80211@.service
        /lib/systemd/system/lm-sensors.service
/lib/systemd/system/systemd-binfmt.service
/lib/systemd/system/wpa_supplicant.service
        /lib/systemd/system/logrotate.service
/lib/systemd/system/systemd-bless-boot.service
/lib/systemd/system/wpa_supplicant@.service
        /lib/systemd/system/man-db.service
/lib/systemd/system/systemd-boot-check-no-failures.service
/lib/systemd/system/wpa_supplicant-wired@.service
        /lib/systemd/system/ModemManager.service
/lib/systemd/system/systemd-boot-system-token.service
/lib/systemd/system/x11-common.service
        /lib/systemd/system/modprobe@.service
/lib/systemd/system/systemd-exit.service
        aluno@LAB-DACC-04:~$ cat /lib/systemd/system/cron.service
        [Unit]
        Description=Regular background program processing daemon
        Documentation=man:cron(8)
        After=remote-fs.target nss-user-lookup.target

        [Service]
        EnvironmentFile=-/etc/default/cron
        ExecStart=/usr/sbin/cron -f $EXTRA_OPTS
        IgnoreSIGPIPE=false
        KillMode=process
        Restart=on-failure

        [Install]
        WantedBy=multi-user.target
```